

Jenkins CI/CD — Static Web App

Short Deck | Punith C | Nov 13, 2025

Summary

- Goal: CI/CD for static site
- Pipeline: Checkout, Build, Test, Deploy
- Deployment: Docker (nginx) on 8090
- Result: 100% success; ~15s

Architecture

- GitHub → Jenkins → Docker Image → Nginx Container → Browser
- Windows host; WSL2 agent
- Base: nginx:alpine

Pipeline (Declarative)

- Checkout → Build (validate.sh) → Test (validate.sh) → Deploy (docker)
- Env: DEPLOY_METHOD=docker; PORT=8090

Implementation

- Make scripts executable; configure Jenkins
- Add Jenkins to docker group; restart
- Pre-pull nginx:alpine

Deployment

- Image: simple-webapp:latest
- Container: simple-webapp-demo (8090→80)
- Auto-stop old container on redeploy

Results

- Build #10: SUCCESS (4/4)
- ~15s total runtime
- URL: <http://localhost:8090>
- JS alert verified

Jenkins Build

Jenkins Build

Jenkins Build #10 @ 4/4 Stages SUCCESS

Replace with real screenshot

Lessons & Next

- Docker simplifies CI/CD
- Repo structure matters (dir(), script path)
- Next: UI tests, registry, blue/green

Thank You

- Repo: github.com/Punith968/simple-webapp-jenkins-ci-cd
- Questions welcome